

Claims

1. An installation for the cataphoretic dip coating of articles, in particular vehicle bodies, comprising

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a) a dip tank, which is partially filled with a coating liquid, into which the articles can be immersed;

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b) a coating voltage source, to the negative terminal of which the immersed articles can be connected and the positive terminal of which is connected with at least one anode immersed in the coating liquid present in the dip tank;

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c) an electrodialysis apparatus, which is arranged outside the dip tank and by means of which the acid formed during the coating operation can be removed from the coating liquid, such that the acid content in the coating liquid remains within an admissible range.

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characterised in that

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d) the anode (6) has a cross-sectional profile which, in at least one portion (6a, 6b, 6c), is adapted as a curved surface to the outline of the articles (4) to be treated in such a manner that the anode follows the outline of said articles (4) in approximately parallel manner.

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2. An installation according to claim 1, characterised in that the anode (6) has a U-shaped profile with two

lateral portions (6a, 6b) and a lower portion (6c), which joins the lateral portions (6a, 6b) together.

3. An installation according to claim 2, characterised in
5 that the lateral portions (6a, 6b) of the anode (6) are concavely curved when viewed from the articles (4).
4. An installation according to one of the preceding
10 claims, characterised in that, at least in its upper part, the anode (6) consists of sheet metal.
5. An installation according to one of the preceding
15 claims, characterised in that, at least in its lower part, the anode (6) consists of a material permeable to the coating liquid.
6. An installation according to claim 5, characterised in
20 that the material permeable to the coating liquid is formed from a wire mesh or screen netting, a grating or a plurality of mutually spaced rods.
7. An installation according to one of the preceding
25 claims, characterised in that the anode (6) consists at least in part of iridium-coated titanium.